

Amendments

In accordance with 37 CFR §1.121 and 37 CFR §1.116, please amend the above-identified application as set forth below.

Amendments to the Claims:

Please amend the claims as set forth below.

23 – 41. (Cancelled)

42. (Currently Amended) An osteal implant comprising:

a ~~post~~ shaft, said ~~post~~ shaft having a longitudinal axis and having a first end and a second end at opposing ends of said longitudinal axis;

said first end having a mount for a device to be implanted;

said second end being attached to a top surface of a base;

said base being substantially orthogonal to said ~~post~~ longitudinal axis in at least two non-parallel directions, said base being substantially planar; at least one of a top surface or a bottom surface of said base having a first height at a first radial distance from said ~~post~~ longitudinal axis and a second height at a second radial distance from said ~~post~~ longitudinal axis;

said first height being maintained through at least two directions radial to said ~~post~~ longitudinal axis;

said second height being maintained through at least two directions radial to said ~~post~~ longitudinal axis, and

both of said top surface and said bottom surface being disposed for osseo integration.

43. (Currently Amended) The implant of claim 42 wherein said first height is maintained through an arc between said at least two directions radial to said ~~post~~ longitudinal axis.

44. (Previously Presented) The implant of claim 42 wherein said first height and second height alternate periodically.

45. (Currently Amended) The implant of claim 42 wherein said first height and second height alternate, said alternation comprising corrugation.

46. (Currently Amended) The implant of claim 42 wherein at least one of said heights has a sharp edge.

47. (Currently Amended) The implant of claim 42 further comprising a third height, said third height being a different radial distance from said ~~post~~ longitudinal axis than either said first height or said second height.

48. (Previously Presented) The implant of claim 42 wherein at least one of said heights varies in said radial direction to comprise a spiral.

49. (Currently Amended) The implant of claim 42 wherein at least one of said heights comprises a plurality of bowl like depressions.

50. (Previously Presented) The implant of claim 42 wherein said heights vary in a range from about 0.05 millimeters to about 0.25 millimeters.

51. (Previously Presented) The implant of claim 42 wherein said base has an outer perimeter and said outer perimeter includes at least three substantially straight edges.

52. (Currently Amended) The implant of claim 42 ~~having a lateral insertion direction and~~ wherein said first and second height comprise barbs

oriented to resist extraction of said implant in at least one a direction ~~opposite said~~
~~direction of insertion.~~

53. (Currently Amended) The implant of claim 42 wherein said at least one of said heights comprises ridges, said ridges being curvilinear on a first side of said base and concave to a first direction of insertion and said ridges being substantially vertical rectilinear on a base side oriented substantially opposite from ~~the direction of insertion~~ said first side.

54. (Previously Presented) The implant of claim 42 wherein at least one of said first height or said second height repeat and vary in extent radially.

55. (Previously Presented) The implant of claim 42 wherein said second height is at a marginal zone of said base, said marginal zone being substantially along a height of a periphery of said base.

56. (Currently Amended) The implant of claim 55 wherein said marginal zone varies in radial distance from said ~~post~~ longitudinal axis.

57. (Previously Presented) The implant of claim 55 wherein said marginal zone comprises reentrant angles.

58. (Currently Amended) An osteal implant comprising ~~a post, said~~
~~post having~~

a shaft having a longitudinal axis with a first end and a second end;

said first end having a mount for a device to be implanted;

said second end being terminally attached to a top surface of a

base;

said base being substantially orthogonal to said ~~post~~ longitudinal axis in at least two non-parallel directions; and said base being substantially planar;

said base having an inner aspect having a first thickness at a first radius in two radial directions and said base having a peripheral aspect having a second thickness at a second radius, said second radius being wider than said first radius in at least one direction.

59. (Currently Amended) The implant of claim 58 wherein a radial width of said peripheral aspect said first radius varies with its direction.

60. (Previously Presented) The implant of claim 58 wherein said first thickness varies.

61- 66 (Cancelled)

67. (New) The implant of claim 42 wherein both said first height and said second height are maintained through an arc between at least two directions radial to said longitudinal axis.

68. (New) The implant of claim 67 wherein said arc is substantially 180°.

69. (New) The implant of claim 58 wherein said first thickness is greater than said second thickness.

70. (New) The implant of claim 58 wherein said peripheral aspect is intermittent around a circumference of said base.

71. (New) The implant of claim 58 wherein a radial width of said inner aspect varies.

72. (New) An osteal implant comprising:

a shaft, said shaft being substantially orthogonal to a substantially planar base at one end, said shaft and said base comprising a substantially T-shaped implant end portion, said T-shaped end portion being disposed for osseointegration and an opposite end portion being disposed to protrude from a bone;

at least one surface of said base having a plurality of crests alternating with a plurality of grooves, both said crests and said grooves being curvilinear around said shaft through substantially 180°.

73. (New) The osteal implant of claim 72 further comprising at least two through holes in said base, said through holes defining a bar, said bar running substantially through a center of said base, said bar being attached to said shaft, and said holes defining a base peripheral area;

wherein said alternating crests and grooves are on said peripheral area.

74. (New) The osteal implant of claim 73 wherein said peripheral area is substantially rectilinear over about one-half of said base.

75. (New) The implant of claim 58 wherein said base has a leading portion and a trailing portion; and

wherein said inner aspect has a boundary, said boundary having a first width oriented towards said leading portion of said base and said boundary having a narrower width oriented towards said trailing portion of said base.

76. (New) The implant of claim 75 wherein variations in said width of said boundary are symmetrical around a direction of insertion defined by said leading portion and said trailing portion.

77. (New) The implant of claim 75 wherein said narrower width of said boundary of said inner aspect comprises a waist on said trailing portion of said base.

78. (New) The implant of claim 58 wherein said base has a leading portion and wherein said peripheral aspect along a leading edge of said leading portion is thinner than said inner aspect.